Available Ph.D. Positions in the Resilient Cyber-Physical Systems Lab

The “Resilient Cyber-Physical Systems Lab” directed by Prof. Yasser Shoukry has several openings, starting Fall 2018, for talented and highly motivated Ph.D. students who are interested in working (both theoretically and experimentally) in the area of Cyber-Physical Systems (CPS) and Internet-of-Things (IoT). Successful candidates are expected to work on one or more of the following projects:

1. Formal verification of machine learning/vision based systems for CPS
2. Attack-resilient autonomous CPS
3. Privacy-aware human-in-the-loop IoT for smart cities

Applications and all supporting materials (e.g., TOEFL and GRE scores) must be submitted to the ECE graduate admissions by December 16. For more information about the admission requirements and procedure, please visit: https://www.ece.umd.edu/grad/admissions

Strong technical background in math along with hands-on experience in embedded systems programming along with interest/enthusiasm in pursuing cutting-edge research are required. Research experience (e.g., previously published work) is not a must (note that M.S. is not a requirement to enter the Ph.D. program) but is highly preferable. To help me know more about your background, please send me the following items via email (use “PhD Student Candidate Fall 2018: [your name]” as the email subject):

- A copy of your CV.
- Official/Unofficial Transcripts (unofficial ones are sufficient)
- One representative publication (if available)
- Brief description of one of your most notable achievements (not necessarily academic)
- TOEFL/IELTS and GRE scores (if available)
- A brief summary of two recent publications from my website:
  http://www.ece.umd.edu/~yshoukry/publications.html

One paragraph summarizing the problem addressed in that paper, one paragraph summarizing the overall idea of the solution, along with one paragraph suggesting future directions that you think interesting in that domain. While fully understanding these papers is not expected, this is more of a brain challenge, first of all to filter out automated emails, and to make sure that candidates are faithful about pursuing these lines of research.